Department of Mathematics
The Chinese University of Hong Kong

數學系
香港中文大學

Mini-Course

Studying the Falconer distance problem using Fourier analysis

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Abstract

We use new tools from Fourier analysis to study Falconer distance problem. We show that for any fractal set E in the plane with Hausdorff dimension $s > 5/4$, then its distance set has positive Lebesgue measure.

Date: 16 August 2018 (Thursday)
Time: 3:30pm – 4:30pm (Part I)
          4:45pm – 5:45pm (Part II)
Venue: Room 222, Lady Shaw Building,
          The Chinese University of Hong Kong, Shatin

All are Welcome